

Quaternary Fault and Fold Database of the United States

As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the [interactive fault map](#).

Spry area faults (Class A) No. 2498

Last Review Date: 1999-10-01

Compiled in cooperation with the Utah Geological Survey

citation for this record: Black, B.D., and Hecker, S., compilers, 1999, Fault number 2498, Spry area faults, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, <https://earthquakes.usgs.gov/hazards/qfaults>, accessed 12/14/2020 02:55 PM.

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| Synopsis | Poorly understood middle and late Quaternary faults in the Spry area. |
| Name comments | Fault ID: Refers to fault number 9-15 in Hecker (1993 #642). |
| County(s) and State(s) | GARFIELD COUNTY, UTAH |
| Physiographic province(s) | COLORADO PLATEAUS |
| Reliability of | Good |

| | |
|--|--|
| location | Compiled at 1:24,000 scale. <i>Comments:</i> Fault traces simplified from 1:24,000-scale mapping of Anderson and Grant (1986 #4568). |
| Geologic setting | Two short, north- to northwest-trending normal faults northwest of Spry and south of the Tushar Mountains. The faults are northeast of and at right angle to the Markagunt Plateau faults [2535], near the eastern edge of the Basin and Range in southwestern Utah. |
| Length (km) | 5 km. |
| Average strike | N19°W |
| Sense of movement | Normal |
| Dip Direction | W |
| Paleoseismology studies | |
| Geomorphic expression | The faults are marked by small scarps on "older piedmont slope deposits," which are graded to a base level a few hundred meters higher than the present level of the Sevier River. |
| Age of faulted surficial deposits | Middle to late Pleistocene |
| Historic earthquake | |
| Most recent prehistoric deformation | middle and late Quaternary (<750 ka) <i>Comments:</i> |
| Recurrence interval | |
| Slip-rate category | Less than 0.2 mm/yr |
| Date and Compiler(s) | 1999 Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey |

References

#4568 Anderson, J.J., and Grant, T.C., 1986, Geologic map of the Fremont Pass quadrangle, Iron and Garfield Counties, Utah: Utah Geological and Mineral Survey Map 81, 6 p. pamphlet, scale 1:24,000.

#642 Hecker, S., 1993, Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization: Utah Geological Survey Bulletin 127, 157 p., 6 pls., scale 1:500,000.

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